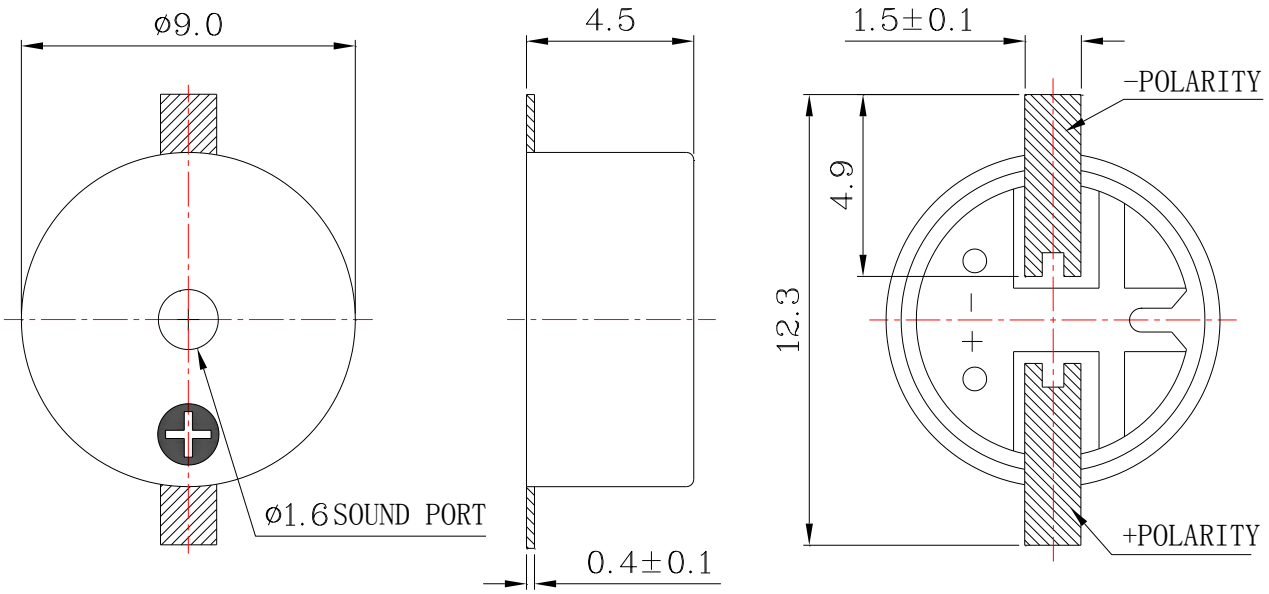
A. SCOPE

This specification applies magnetic buzzer, **SMT-9045A-03627J**

B. SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2700	Vp-p=1/2duty , square wave
2	Operating Voltage	Vp-p	2.5 ~ 4.5	
3	Rated Voltage	Vp-p	3.6	
4	Current Consumption	mA	MAX. 100	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 90	at 10cm at Rated Voltage
6	Coil Resistance	Ω	16±3	
7	Operating Temperature	℃	-20 ~ +70	
8	Storage Temperature	℃	-30 ~ +80	
9	Dimension	mm	Φ9.0 x H4.5	See appearance drawing
10	Weight (MAX)	gram	0.8	
11	Housing Material		PPS(Black)	
12	Leading Pin		Plated Brass(Au)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING



Tol : ± 0.5 **Unit: mm**

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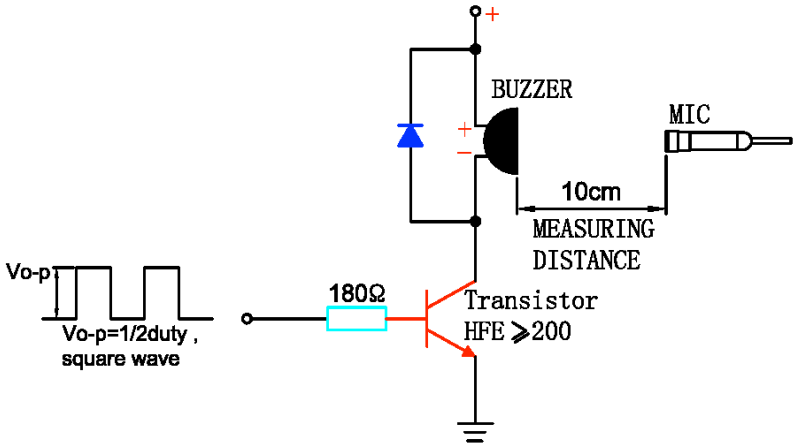
D.TESTING METHOD

Standard Measurement conditions

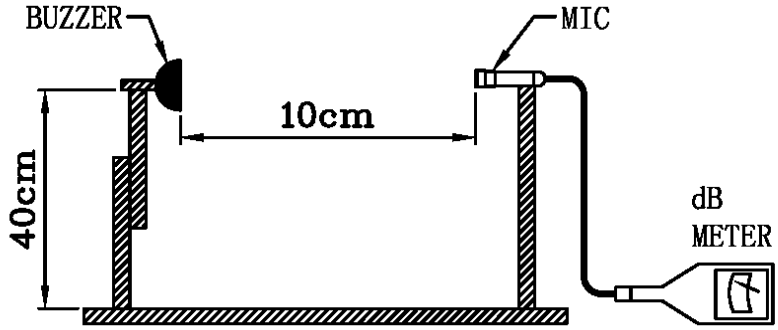
Temperature:25±2℃ Humidity:45-65%

Acoustic Characteristics:

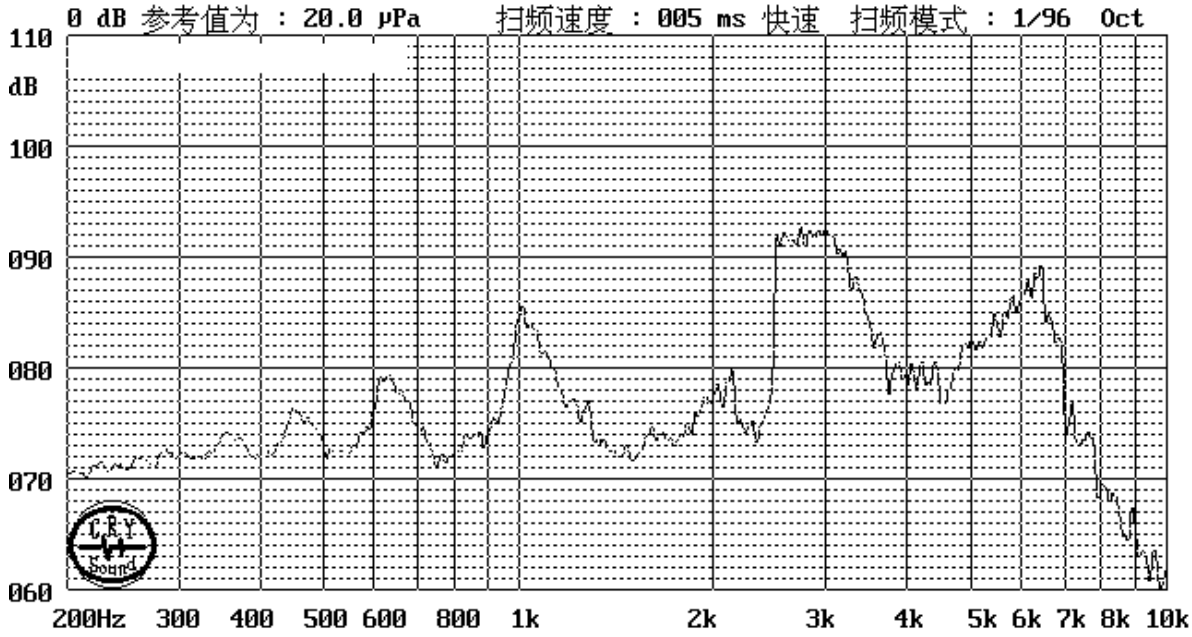
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



In the measuring test, buzzer is placed as follows:



E. Typical Frequency Response Curve



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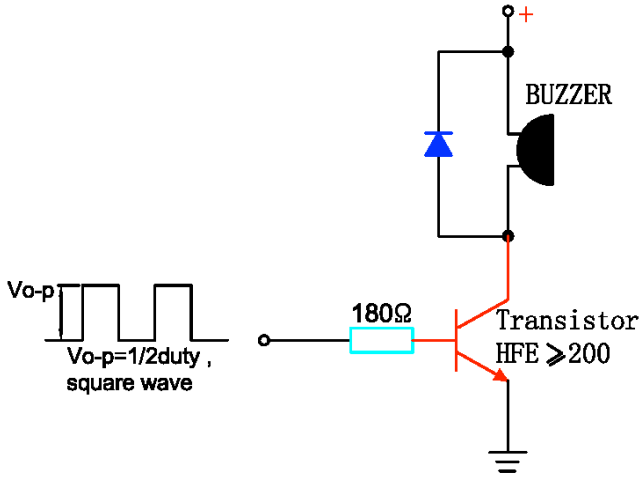
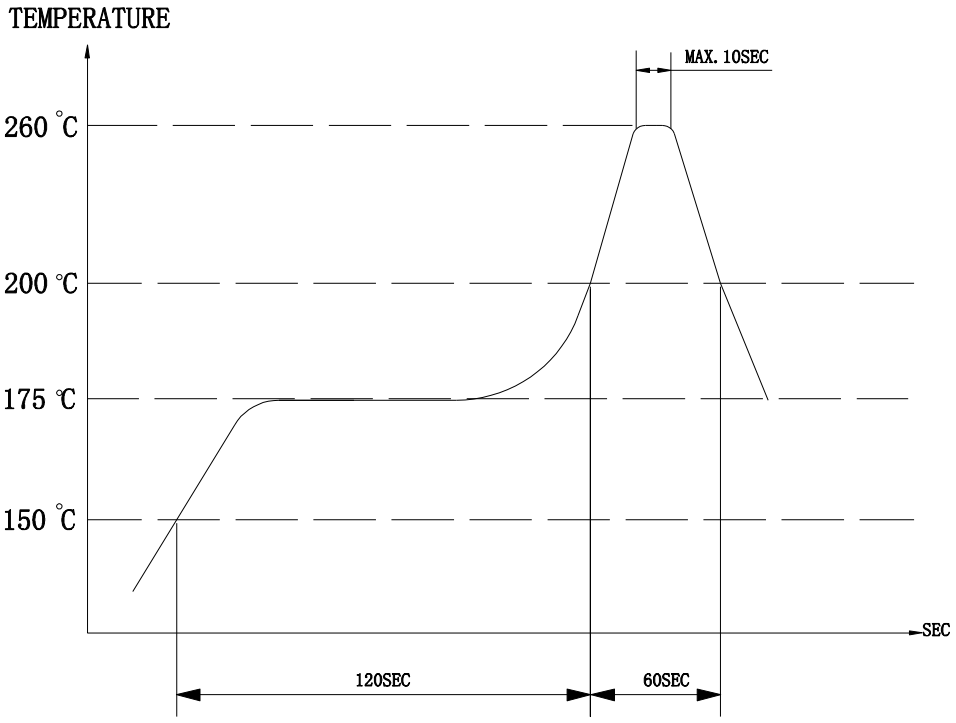
F. Recommend Driving Circuit



The base current Ib should high enough so that it saturates the collector current of the transistor with the CB load.

G. Soldering Condition

(1)Recommendable reflow soldering condition is as follows
(Reflow soldering is twice)
Note:It is requested that reflow soldering should be executed
after heat of product goes down to normal.



Heat resistant line
(Used when heat resistant reliability test is performed)
(2)Manual soldering
Manual soldering temperature 350° C within 5 sec.

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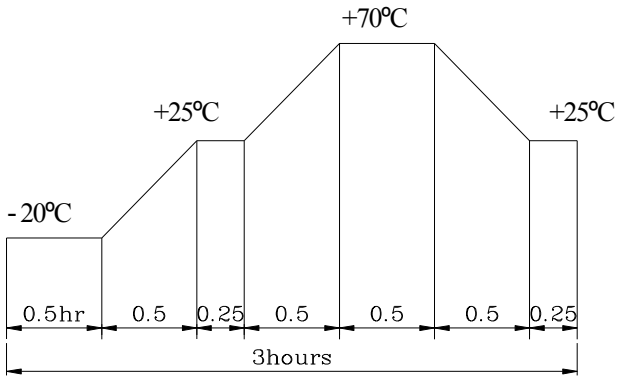
H. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with 80ð2ºC for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ð10dB.
2	Low Temperature Test (Storage)	After being Placed in a chamber with -30ð2ºC for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ð10dB.
3	Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40ð2ºC for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ð10dB.
4	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of：  Allowable variation of SPL after test: ð10dB.
5	Drop Test	Drop on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm . Allowable variation of SPL after test: ð10dB.
6	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: ð10dB.
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300ð5ºC for 3ð1 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).
8	Terminal Strength Pulling Test	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.

TEST CONDITION.

Standard Test Condition	:	a) Temperature : +5 ~ +35℃	b) Humidity : 45-85%	c) Pressure : 860-1060mbar
一般测试条件	:	a) 温度 : +5 ~ +35℃	b) 湿度 : 45-85%	c) 气压 : 860-1060mbar
Judgment Test Condition	:	a) Temperature : +25 ± 2℃	b) Humidity : 60-70%	c) Pressure : 860-1060mbar
争议时测试条件	:	a) 温度 : +25 ± 2℃	b) 湿度 : 60-70%	c) 气压 : 860-1060mbar

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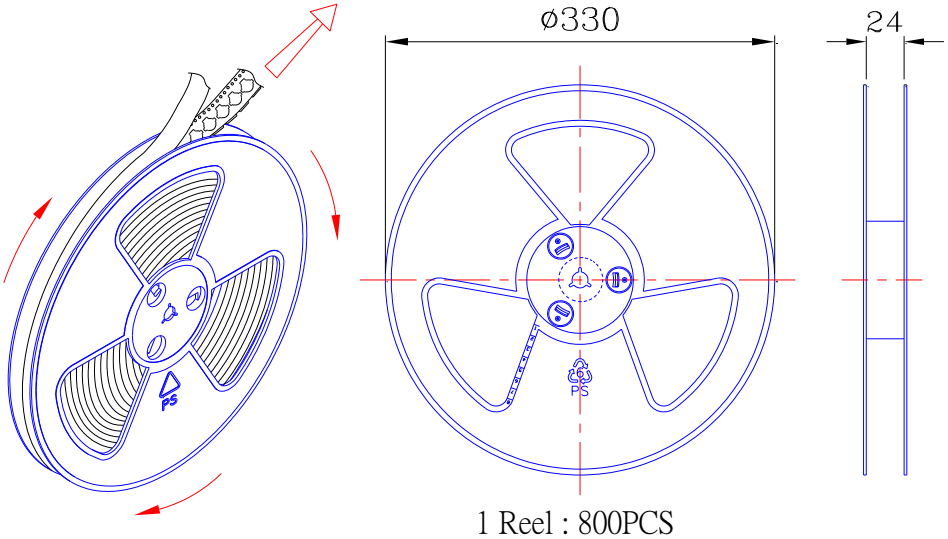
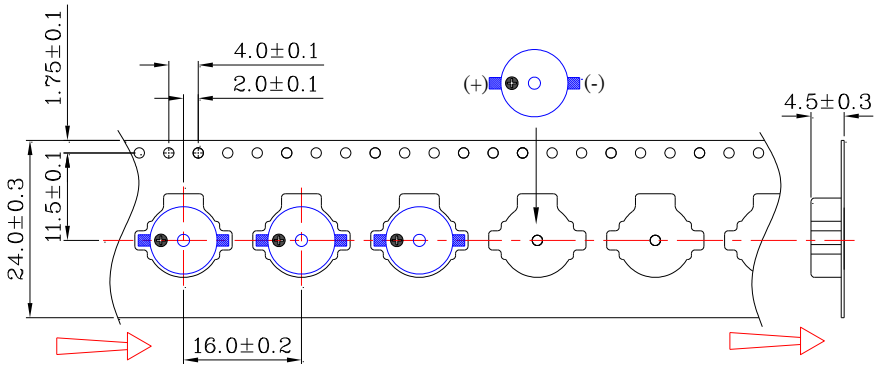
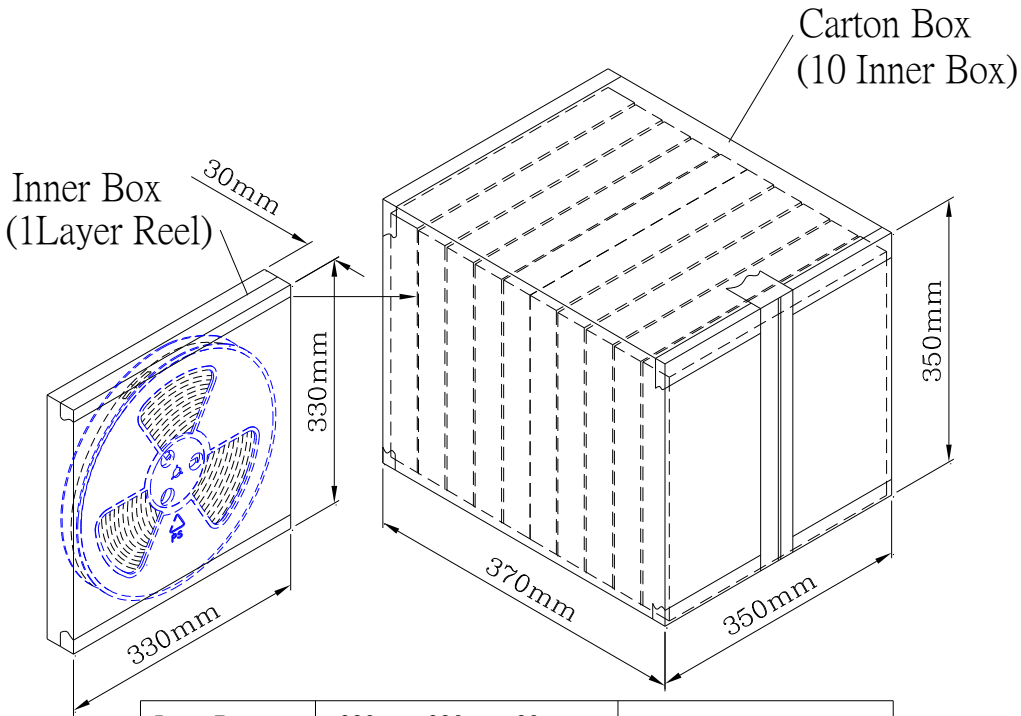
I. PACKING STANDARD



1 Reel : 800PCS





Inner Box	330mmx330mmx30mm	1x800PCS=800PCS
Carton Box	350mmx350mmx370mm	10x800PCS=8,000PCS

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